

OCT 16 2006

PATENT

App. Dkt. No. AVAN001112

REMARKS

In the Advisory Action dated August 25, 2006, the Examiner indicated that the response to the Final Office Action dated June 16, 2006, which was electronically filed on August 16, 2006, raised new issues that would require further search and consideration. In response, Applicants are filing a RCE and this amendment as a submission with the RCE. This amendment is filed in place of the Response to Final Office Action electronically filed on August 16, 2006. Please reconsider the claims pending in the application for reasons discussed below.

Statement of Substance of Interview

On October 10, 2006, a telephonic interview was held between Walter C. Grollitsch, attorney of record, and the Examiner. Claims 1, 10, and 25 were discussed. The arguments and amendments herein are presented in accordance with the substance of the interview to place the application in condition for allowance.

Claim Rejections

The Examiner rejected claims 1 and 10 under 35 U.S.C. § 102(b) as being anticipated by Ishimura. The Examiner also rejected claims 2 and 13 under 35 U.S.C. § 103(a) as being obvious over Ishimura in view of Roxlo. Further, the Examiner rejected claims 6 and 17 under 35 U.S.C. § 103(a) as being obvious over Ishimura. In response, Applicants have amended claims 1 and 10.

As amended, claim 1 includes the limitations of (i) a housing with an input fiber at one end and an output fiber at another end thereof, wherein the fibers are connected to the housing along substantially the same axis, (ii) a Lithium Niobate chip having a low impedance and an RF electrode, (iii) a microwave input chip coupled to the modulator chip, the microwave input chip having a thin film resistor for connecting a RF connector to the RF electrode of the Lithium Niobate chip, wherein the RF connector is positioned in the housing such that the RF connector is substantially perpendicular to the axis of the fibers and the microwave input chip is configured to increase the total input impedance of the modulator and (iv) a coplanar waveguide in the microwave input chip, the thin film resistor being placed in the coplanar waveguide. Ishimura does not disclose these limitations.

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Rather, Ishimura merely discloses a light modulator module having a light module "1" connected to a strip line "3" and a terminating resistor "5" via wires "4", "10", respectively. Further, Roxlo fails to cure the deficiencies of Ishimura.

As amended, claim 10 includes the limitations of (i) a housing, (ii) an input fiber connected to an end of the housing and an output fiber connected to another end of the housing, the fibers connected to the housing along substantially the same axis (iii) a RF connector connected to the housing such that the RF connector is substantially perpendicular to the axis of the fibers, (iv) a modulator chip having a low impedance and an RF electrode, wherein the modulator chip is optically connected to the input fiber and the output fiber and (v) a microwave input chip coupled to the modulator chip, the microwave input chip having a resistor member with a low impedance for increasing the total input impedance of the modulator, the resistor member connects the RF connector to the RF electrode of the modulator chip. Ishimura does not disclose these limitations. Rather, as set forth above, Ishimura merely discloses a light modulator module having a light module "1" connected to a strip line "3" and a terminating resistor "5". Again, Roxlo fails to cure the deficiencies of Ishimura.

As the foregoing illustrates, Ishimura fails to anticipate claims 1 and 10. Applicants therefore submit that claims 1 and 10 are in condition for allowance and respectfully requests withdrawal of the § 102(b) and the § 103(a) rejections. Additionally, since claims 7 and 9 and new claim 23 depend from claim 1 and claims 11-13, 14-16-17, and 20, and new claim 24 depend from claim 10, these claims are allowable for at least the same reasons as claims 1 and 10.

New Claims

New claims 23-27 have been added to claim aspects of the present invention. Applicants submit that no new matter has been added. As stated herein, new claim 23 depends from claim 1 and new claim 24 depends from claim 10 and these claims are allowable for at least the same reasons as claims 1 and 10. Further, Applicants believe that the references cited by the Examiner do not teach or suggest an electro-optical modulator comprising a housing with an input fiber at one end and an output fiber at another end thereof, wherein the fibers are aligned in the housing along substantially the same axis, a modulator chip connected to the input

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fiber and the output fiber, the modulator chip includes an RF electrode, a RF connector connected to the modulator chip, wherein the RF connector is positioned such that the RF connector is substantially perpendicular to the axis of the fibers, and a RF accessory chip coupled to the modulator chip, the RF accessory chip having a resistor member with a low impedance for increasing the total input impedance of the modulator chip, wherein the resistor member connects the RF connector to the RF electrode of the modulator chip, as recited in new claims 25-27. For these reasons, Applicants believe that new claims 23-27 are in condition for allowance and respectfully request the same.


Conclusion

Having addressed all issues set out in the office action, Applicants respectfully submit that the case is in condition for allowance. If the Examiner has any questions, please contact the Applicants' undersigned representative at the number provided below.

Conclusion

Having addressed all issues set out in the office action, Applicants respectfully submit that the case is in condition for allowance. If the Examiner has any questions, please contact the Applicants' undersigned representative at the number provided below.

Respectfully submitted,


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